

ABSTRACT

Interconnection structures for integrated circuits have first cells disposed in a first plane, at least second cells disposed in at least a second plane parallel to the first plane, and vertical interconnections disposed for connecting conductors in the 5 first plane with conductors in the second plane, at least some of the vertical interconnections initially incorporating antifuses. The antifuses may be disposed over conductors that are disposed on a base substrate. The antifuses are selectively fused to prepare the integrated circuit for normal operation. Methods for fabricating and using such vertical interconnection structures are disclosed.